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WHAT IS CLAIMED IS:

1. A method of manipulating image data, comprising the steps of:
  - a) receiving the image data at a processor, wherein the image data is in an aperiodic cell format;
  - 5 b) sampling the image data into a predetermined periodic format.
2. The method as claimed in claim 1 wherein the aperiodic cell format is Ammann tiles.
3. The method of claim 1 wherein the predetermined periodic format is that used for a printer description language.
- 10 4. The method of claim 1 wherein the predetermined periodic format is Postscript™.
5. The method of claim 1 wherein the predetermined periodic format is SVGA.
6. The method of claim 1 wherein the predetermined periodic format is XGA.
7. The method of claim 1 wherein the predetermined periodic format is VGA.
- 15 8. The method of claim 1 wherein the predetermined periodic format is SXGA.
9. A method of manipulating image data, comprising the steps of:
  - a) receiving the image data at a processor, wherein the image data is in a periodic cell format;
  - b) sampling the image data into an aperiodic cell format.
- 20 10. The method of claim 9 wherein the periodic cell format is VGA.
11. The method of claim 9 wherein the periodic cell format is SVGA.
12. The method of claim 9 wherein the periodic cell format is XGA.
13. The method of claim 9 wherein the periodic cell format is SXGA.

14. The method of claim 9 wherein the periodic cell format is used for a printer description language.

15. The method of claim 9 wherein the aperiodic cell format uses Ammann tiling.

16. An imaging system, comprising:

5        a) an aperiodic input device, wherein the input device produces image data in aperiodic format;

            b) an aperiodic output device, wherein the output device renders an image represented by the image data produced by the input device aperiodically.

17. The method of claim 1 wherein the input device is a scanner.

10      18. The method of claim 1 wherein the input device is a camera.

            19. The method of claim 1 wherein the output device is a printer.

            20. The method of claim 1 wherein the output device is a display.

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